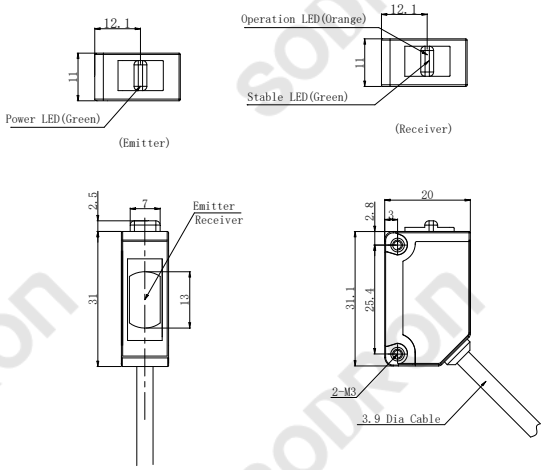
SODRON

**Photoelectric Sensors**

## Dimension

CAD数据




## Model

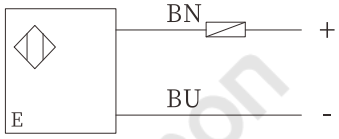
PF31-T10BNOR(E)
PF31-T10BNCR(E)
PF31-T10BPOR(E)
PF31-T10BPCR(E)

## Product Features

- ●Through beam，660nm Red LED
- ●ASIC,Fast Response，High Frequency
- ● IEC IP67

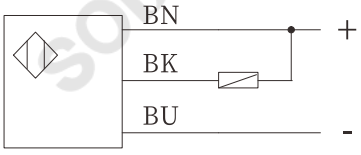
## Connection

发射器

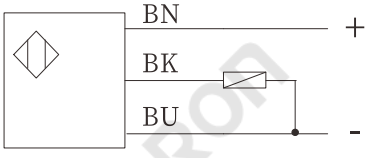



接收器

NPN




PNP




## Technical parameters

| | | | |
|---|---|---|---|
| Sensing method | | Through beam | |
| Model | NPN | PF31-T10BNOR(E) | PF31-T10BNCR(E) |
| | PNP | PF31-T10BPOR(E) | PF31-T10BPCR(E) |
| Sensing distance | | 10m | |
| Standard target | | ＞Φ15mm（Opaque object） | |
| Output mode | | Dark ON | Light ON |
| Light souroe | | 660nm Red LED | |
| Supply power | | DC 12～24V ±10%，impulse（P-P）＜10% | |
| Directivity Angle | | 3~15° | |
| Residual Voltage | | ＜2V (Load Current：≤100mA) | |
| Curent consumption | | <20mA | |
| Load Current | | ≤100mA | |
| Circuit protection | | Power reverse indirection connection protection, short-circut protection | |
| Response time | | <1ms | |
| Indicator light | | Output LED:Orange LED、Power/stable: Green LED | |
| Connection | | Cable 2m | |
| Ambient temperature | | Work:-25～+55℃；Store：-30～+70℃（(No dew condensation or icing allowde) | |
| Ambient humidity | | Work：35～85%RH，Store：35～95%RH，（No dew condensation） | |
| Ambient illumination | | Sunlight :10,000Lx，lamplight:3,000Lx | |
| Withstand Voltage | | 1000 VAC, 50/60 Hz, 1 min. | |
| Insolution resistance | | ＞20MΩ（DC500V megger）between current-carring parts and case | |
| Anti-vibration | | 10~55HZ double-amplitude 1.5mmX,Y.Z 2H | |
| Anti-impact | | 500m/S² X，Y,Z，directions for 3 times | |
| Protection degree | | IEC IP67 | |
| Material | Housing | PBT | |
| | Lens | PMMA | |